



## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03-80	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/JP2003/010394	International filing date (day/month/year) 18 August 2003 (18.08.2003)	Priority date (day/month/year) 29 August 2002 (29.08.2002)	
International Patent Classification (IPC) or national classification and IPC C07C 235/20, C07K 5/062, G01N 33/53, 33/531			
Applicant TOYO BOSEKI KABUSHIKI KAISHA			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p> <input checked="" type="checkbox"/> Box No. I Basis of the report  <input type="checkbox"/> Box No. II Priority  <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  <input type="checkbox"/> Box No. IV Lack of unity of invention  <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  <input type="checkbox"/> Box No. VI Certain documents cited  <input type="checkbox"/> Box No. VII Certain defects in the international application  <input type="checkbox"/> Box No. VIII Certain observations on the international application     </p>
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Date of submission of the demand 02 February 2004 (02.02.2004)	Date of completion of this report 30 June 2004 (30.06.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:

international search (under Rules 12.3 and 23.1(b))  
 publication of the international application (under Rule 12.4)  
 international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

The international application as originally filed/furnished

the description:

pages \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:

pages \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:

pages \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

the description, pages \_\_\_\_\_  
 the claims, Nos. \_\_\_\_\_  
 the drawings, sheets/figs \_\_\_\_\_  
 the sequence listing (*specify*): \_\_\_\_\_  
 any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages \_\_\_\_\_  
 the claims, Nos. \_\_\_\_\_  
 the drawings, sheets/figs \_\_\_\_\_  
 the sequence listing (*specify*): \_\_\_\_\_  
 any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/10394

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	2-11	YES
	Claims	1	NO
Inventive step (IS)	Claims	2-11	YES
	Claims	1	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

## 2. Citations and explanations

Document 1: Masood ARJMAND et al., "Metabolism of 2,4-dichlorophenoxyacetic acid. 8. Gas Liquid Chromatography of Trimethylsilyl Derivatives of Amino Acid Conjugates," *Journal of Agricultural and Food Chemistry*, 1976, Vol. 24, No. 3, pages 574-580

Document 2: Michael KELLEY et al., "The Effect of Pretreatment with 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin on the Hepatic Metabolism of 2, 4, 5-trichlorophenoxyacetate (2, 4, 5-T) and 2, 4-dichlorophenoxyacetate (2, 4-D)," *Toxicology and Applied Pharmacology*, 1987, Vol. 91, No. 2, pages 295-298

Document 3: R. K. MITCHUM et al., "Application of Negative Ion Atmospheric Pressure Ionization (NIAPI) Mass Spectrometry for Trace Analysis," *Advances in Mass Spectrometry*, 1980, No. 8B, pages 1415-1421

The invention that is set forth in claim 1 is disclosed in document 1 (table 1) cited in the international search report; therefore, it lacks novelty and does not involve an inventive step.

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The invention that is set forth in claim 1 is disclosed in document 2 (fig. 1) cited in the international search report; therefore, it lacks novelty and does not involve an inventive step.

The invention that is set forth in claim 1 is disclosed in document 3 (Introduction) cited in the international search report; therefore, it lacks novelty and does not involve an inventive step.

The immunoassay methods that are set forth in claims 2-11 are not disclosed in the documents that are cited in the international search report or in any of the documents that are considered to be related to the inventions in question, and are not obvious to a person skilled in the art.